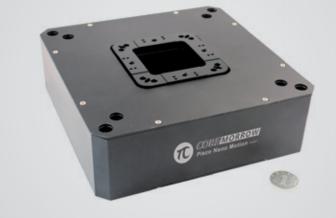


# 6 axes | H61.XYZTR0S/K-B2 Piezo XYZ/Tip/Tilt/Rotation Stage



## Introduction

H61.XYZTROS/K-B2 6-Axis Piezo Tilt Stage can produce six axes ultra-precision motion, suitable for static sixaxis linear nano-positioning and angular nano-radian deflection. With a 50mm×50mm through hole in the center, it can be used for transmitted light applications.

#### Characteristics >>

- Motion in X, Y, Z, θx, θy, θz
- High load capacity
- Static use
- Optional closed loop sensor

#### Applications >>

- Optical beam scanning
- Light path adjustment
- Graphical stability
- Interference/metering
- Prism position adjustment
- Optical applications
- Transmitted light applications, etc.
- Six-axis ultra-precision position adjustment



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### Technical Data >>

Туре	H61.XYZTR0S-B2	H61.XYZTR0K-B2	Units
Active axes	Х, Ү, Ζ, Өх, Өу, Өz	Х, Ү, Ζ, Өх, Өу, Өz	
Driving channels	7	7	
XYZ Travel(0~120V)	XY100/axis, Z25	XY100/axis, Z25	μm±20%
XYZ Travel(0~150V)	XY125/axis, Z31	XY125/axis, Z31	μm±20%
Travel in θxθy(0~120V)	±0.2/axis	±0.2/axis	mrad±20%
Travel in θxθy(0~150V)	±0.25/axis	±0.25/axis	mrad±20%
Travel in θz(0~120V)	0.12	0.12	mrad±20%
Travel in θz(0~150V)	0.15	0.15	mrad±20%
Closed/open-loop resolution in θx, θy	0.5	0.5	μrad
Closed/open-loop resolution in $\theta z$	0.5	0.5	μrad
Closed/open-loop resolution in XY	<10	<10	nm
Closed/open -loop resolution in Z	2.5	2.5	nm
Linearity	0.2	0.2	%F.S.
Repeatability	0.1	0.1	%F.S.
Unloaded resonant frequency	150	150	Hz±20%
Resonant frequency at loading	70(@2kg)	70(@2kg)	Hz±20%
Sensor	SGS	-	
Load capacity	Upright 2, lateral 0.1, inverted 0.2	Upright 2, lateral 0.1, inverted 0.2	kg±5%
Central aperture	50×50	50×50	mm
Using way	Static	Static	
El. capacitance	XY:10.8/axis, Ζ: 14.4, θxθyθz: 3.6/axis	XY:10.8/axis, Ζ: 14.4, θxθyθz: 3.6/axis	μF±20%
Mass	< 3	< 3	kg±5%
Material	Steel, aluminum	Steel, aluminum	
Operating temperature <sup>[1]</sup>	-20~80	-20~80	°C
Cable length <sup>[2]</sup>	1.5	1.5	m±10mm
Sensor/voltage connector <sup>[2]</sup>	D-SUB	D-SUB	

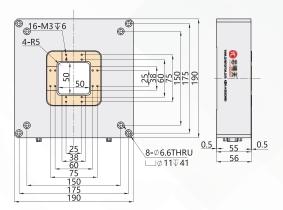
Note: Technical data are measured by CoreMorrow E00/E01 series piezo controller. Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation. Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

[1] Custom ultralow temperature and ultrahigh vacuum versions are available.

[2] Custom cable length and connector is available.

Note: The parallelism of the moving platform is about 20µm, and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

#### Drawing >>



#### Recommended Controllers >>



E51.D7S 7 channels, output voltage 0~120V Driving 6-axis moiton piezo stage Software control



E01.A9 1~9 channels, Open loop Analog input/ Software control Ave current 291mA



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